Video doorphone integration with **vivimat®** III

Ref: NA-17_v.III

Implicated elements

In the following application note the following elements are discussed:

Ref. **vivimat®** 3.0	- **vivimat®** 3.0 controller board and power supply
Ref. **vivimat®** project	- Software to configure **vivimat®** III systems
Ref. P-VISION-C7(X)	- 7" Color screen
Ref. MOD-0200	- Video doorphone connection module
Ref. MOD-0350	- GSM module
Ref. MOD-0800	- Audio expansion module.

If you need more specific information on the characteristics of any of them, please refer to the technical data sheets.

Functionality

The **vivimat®** III systems can provide video doorphone services adding the video doorphone management specific module, Ref. MOD-0200. This module is connected to the central unit. The **vivimat®** III systems are compatible with the AUTA COMUNICACIONES S.L. video doorphone systems. From now on, Auta.

If you want detailed information about the Auta video doorphone systems, consult the technical catalogues.

The **vivimat®** III systems are compatible with the following Auta systems:

Product range	Series	Models
Compact Digital Dom (Special version for vivimat systems)	S1, S2, S3, S4 and S5	T, TT and P
Decor Digital	S1, S2, S3, S4 and S5F y FV	(F: talking, FV: talking/video)

Both product ranges have models with a keyboard or buttons.

A **vivimat®** III system with video doorphone function is composed of the following elements:

Component	Description	Reference
vivimat® central unit	**vivimat®** III central unit with MOD-0001 & MOD-0200	**vivimat®** 3.0
Screen	P-VISION-C7(X)	P-VISION-C7(X)
Door Digital	Door Station	(various models)
Compact Digital Dom	Door Station	(various models) AUTA

Video doorphone integration with **vivimat®** III

Embedded box	Boxes to embed the different door stations (X=1 series 1, ...X=5 series 5)	50902X
Video door pone power supply	Up to 10 housings:	
	Power supply ATF-98	715103
	Up to 40 housings:	
	Power supply ALV-3.5A	715403
	+ Auxiliary power supply ATF-12	715203
Digital control module	Required when using audio modules	600005
Keyboard control module	Control module with keypad for door stations	600006
Connection module rows/columns	Required to unite 2 or 3 button-door stations	600002
SDL-line digital selector	The SDL allows to communicate from various common external accesses with one of the interior buildings.	730137
Door opener.	Door opener MOD.A	720001
Video distributor	Coaxial video distributor system DVC-4S (for every 4 housings a distributor is required)	750498

The door stations can be with a keyboard or buttons.

Door stations with buttons:

Are the most popular option. Their main advantage is its ease of use by having a call button for each housing. The main disadvantage of such door stations is that if the number of houses connected is high (over 20), you may require using multiple door stations connected together, and thereby increasing the cost and complexity.

Door stations with keyboard:

Its main advantage is that you can call a large number of homes with just one door station. Its disadvantage is that the handling is not as intuitive as the button door stations. Another advantage of these door stations is that they allow the opening of the door by entering a secret PIN.

Encoding of the digital system with door station with buttons

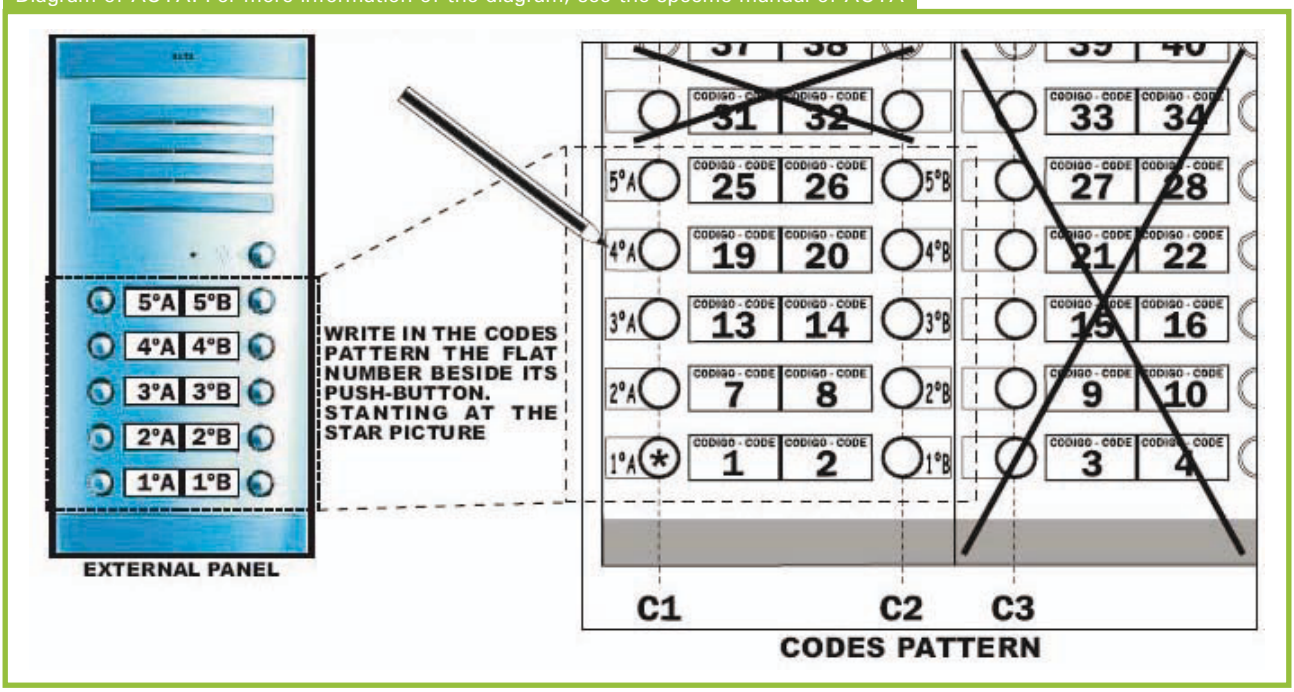
Step 1. How does the digital system work:

Each button of the door station has a different call code assigned. When you press the call button, the door station sends that code to all the **vivimat®** central units. The central unit that has this code assigned will answer. The code assignment for each **vivimat®** central unit is carried out via an 8 position selector located in the MOD-0200 of the central unit. The central unit is only activated when the MOD-0200 module is encoded and receives its call code from the door station.

Step 2. How to assign call codes:

Locate yourself with the code template next to the door station. Type in the door station, starting with the button marked with a star, the number of each housing as indicated in the drawing.

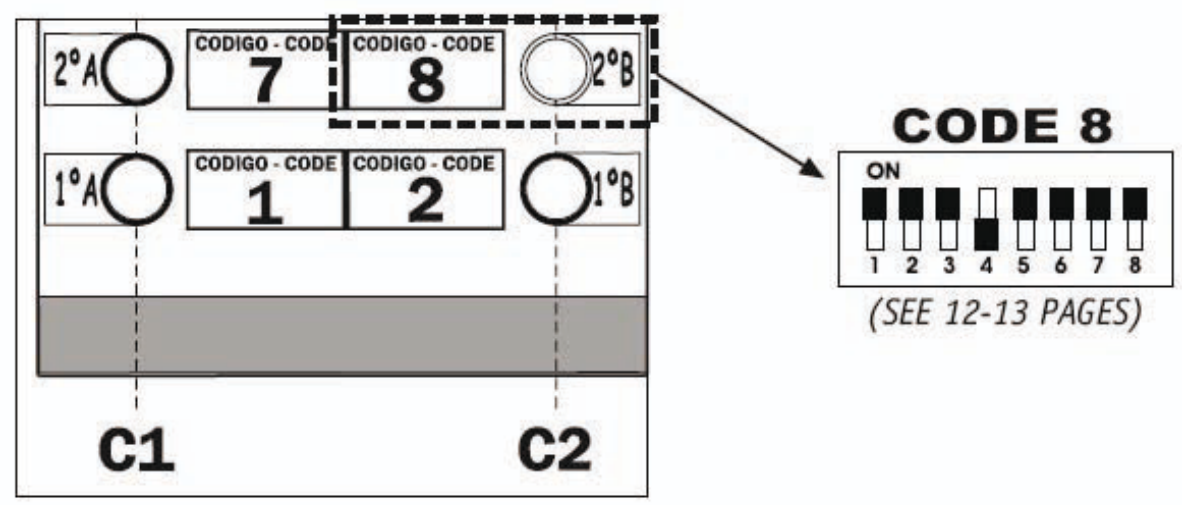
Diagram of AUTA. For more information of the diagram, see the specific manual of AUTA



Step 3. Encoding in the vivimat central unit:

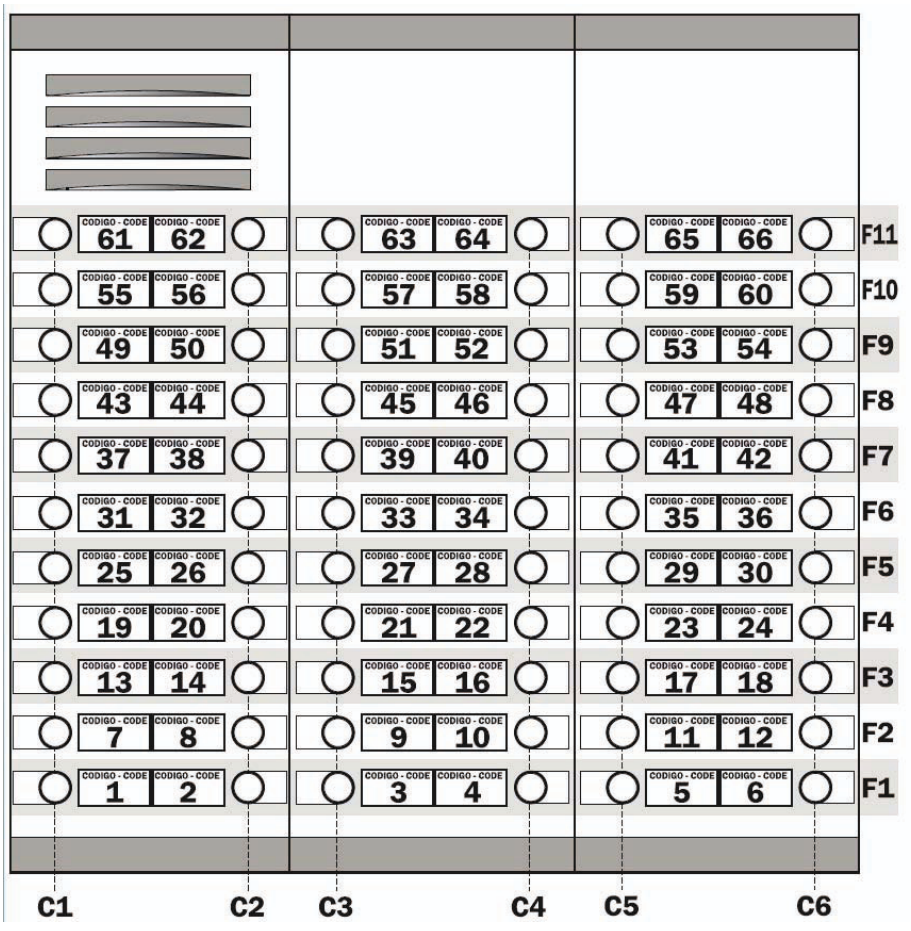
Go back into the housing with the code template and encode the central unit accordingly to the button that calls this housing.

Diagram of AUTA. For more information of the diagram, see the specific manual of AUTA



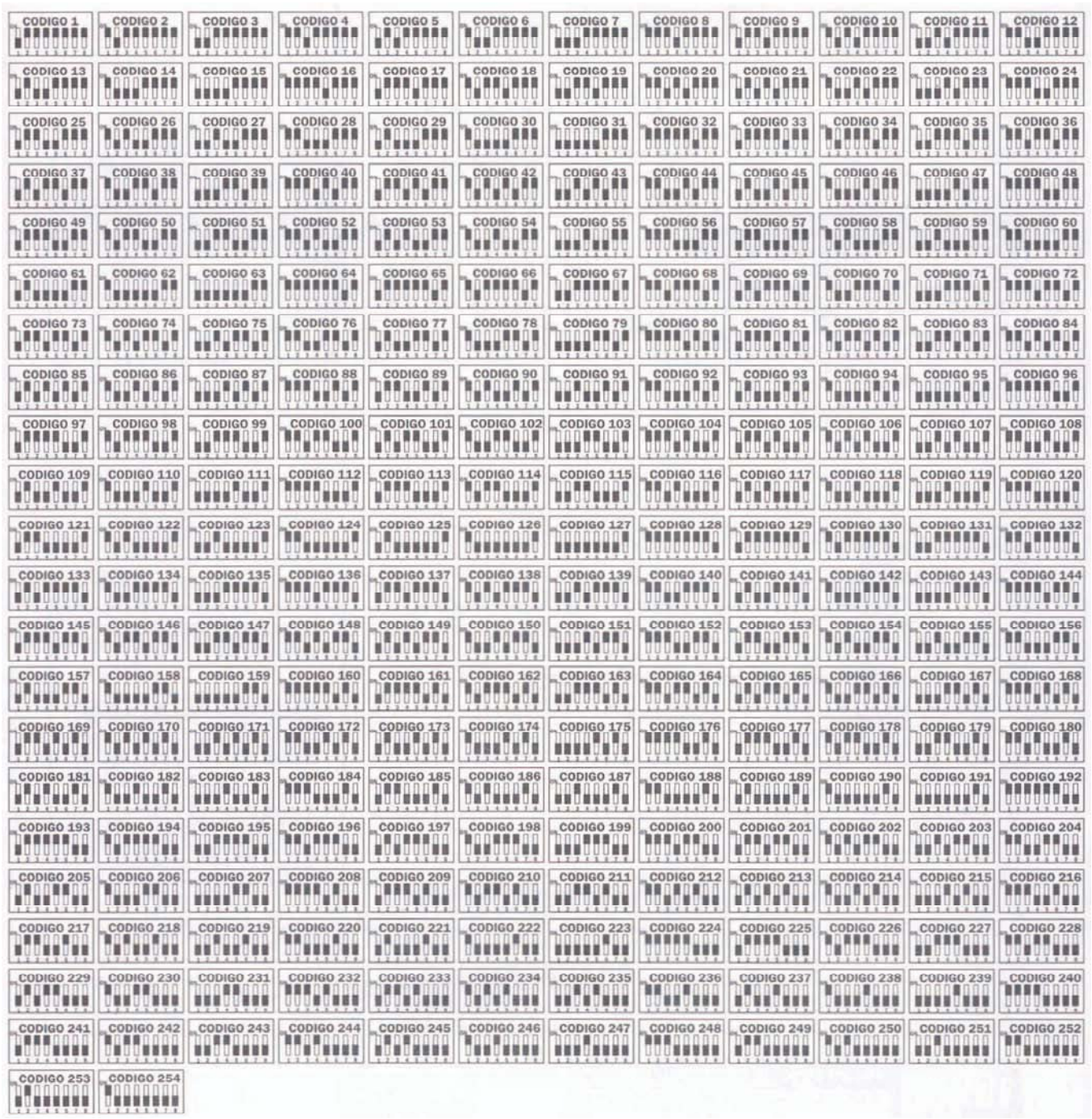
Codes template

Diagram of AUTA. For more information of the diagram, see the specific manual of AUTA



Configuring the switches of the central units

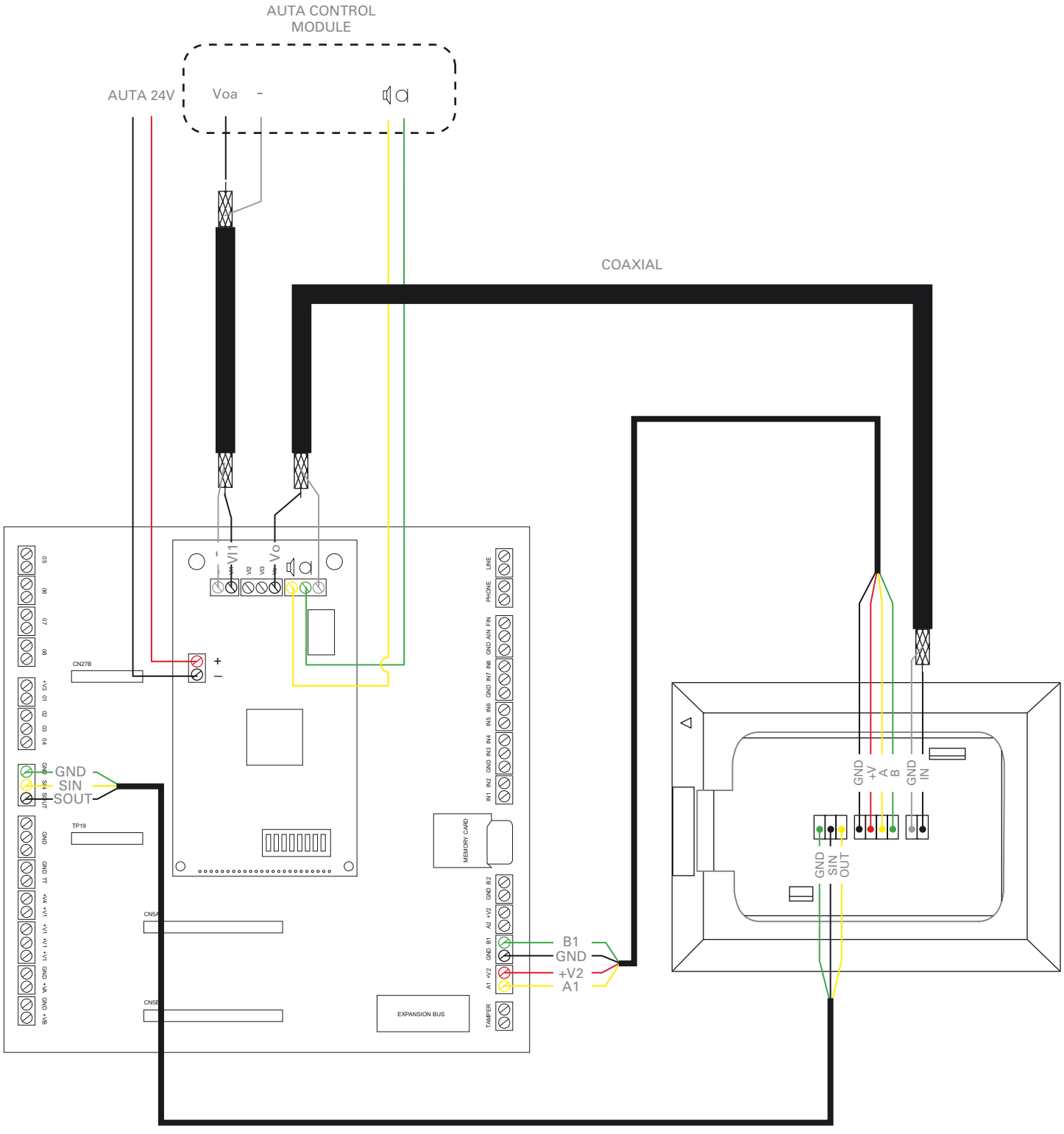
Diagram of AUTA. For more information of the diagram, see the specific manual of AUTA



Video doorphone integration with **vivimat®** III

Installation

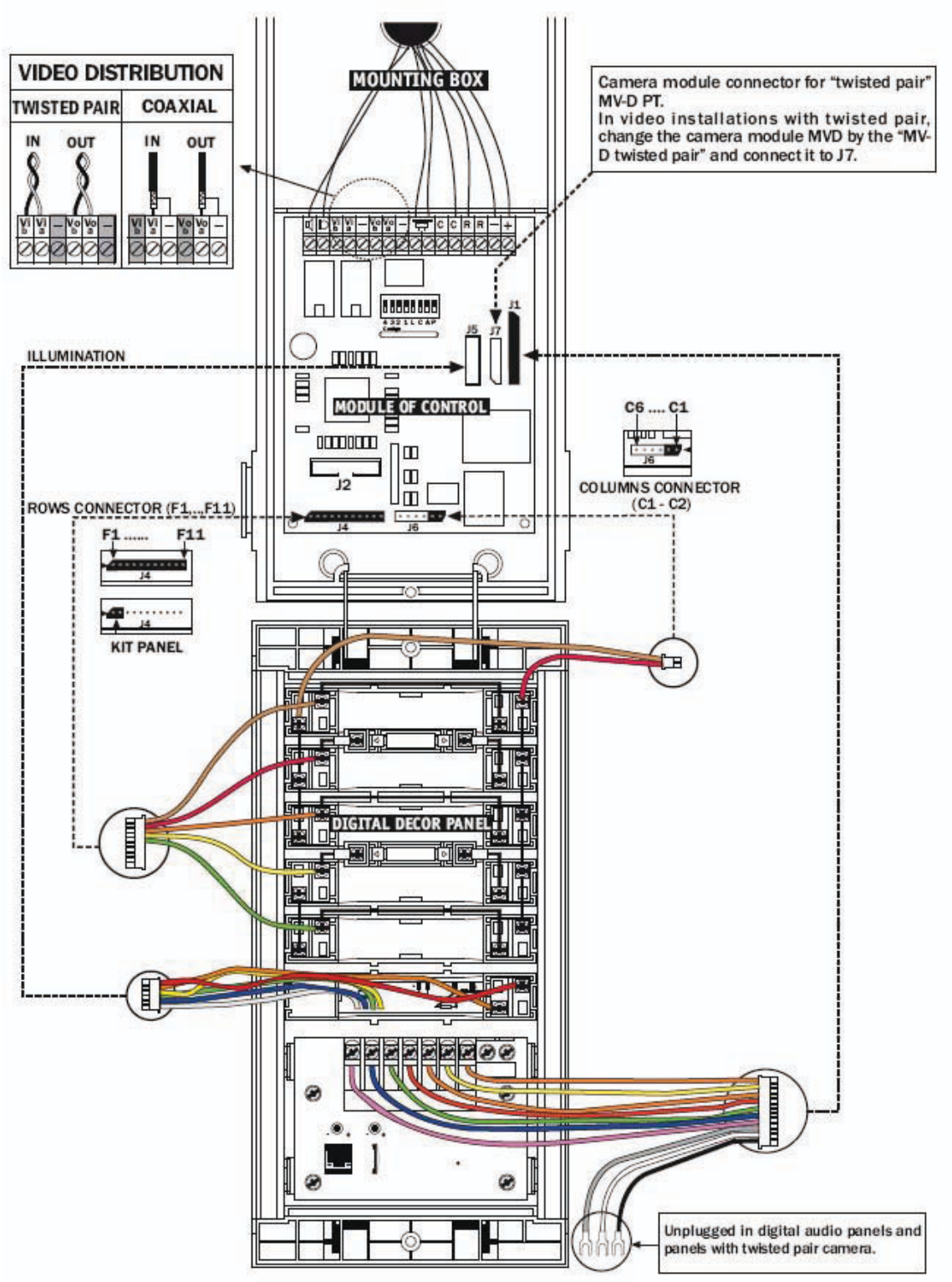
Connection between the **vivimat®** III central unit, terminals and AUTA control module:



Video doorphone integration with **vivimat®** III

Connection of the digital door station with buttons with a control module.

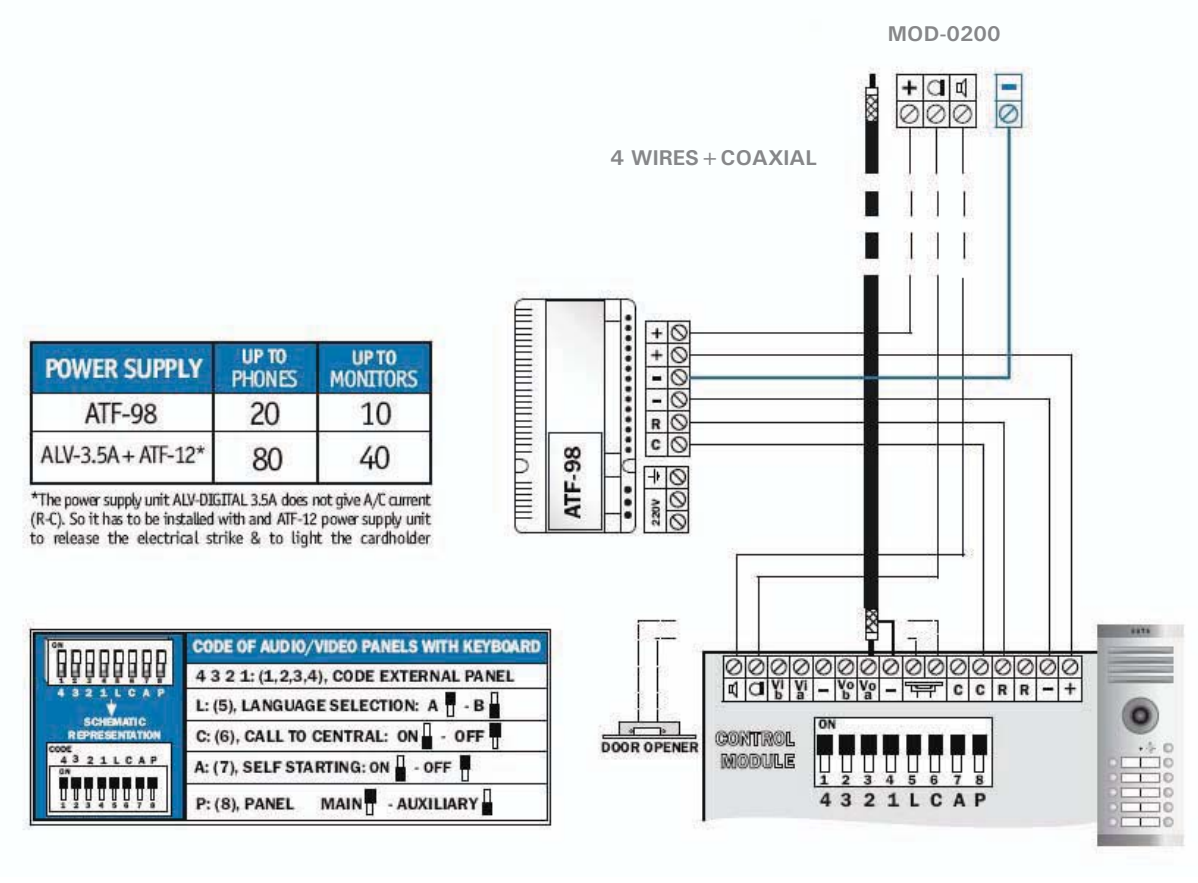
Diagram of AUTA. For more information of the diagram, see the specific manual of AUTA



Video doorphone integration with **vivimat®** III

Connecting the door stations with the power supply. The door opener and the drip moulding of the building (1 street panel):

Diagram of AUTA. For more information of the diagram, see the specific manual of AUTA



POWER SUPPLY	UP TO PHONES	UP TO MONITORS
ATF-98	20	10
ALV-3.5A + ATF-12*	80	40

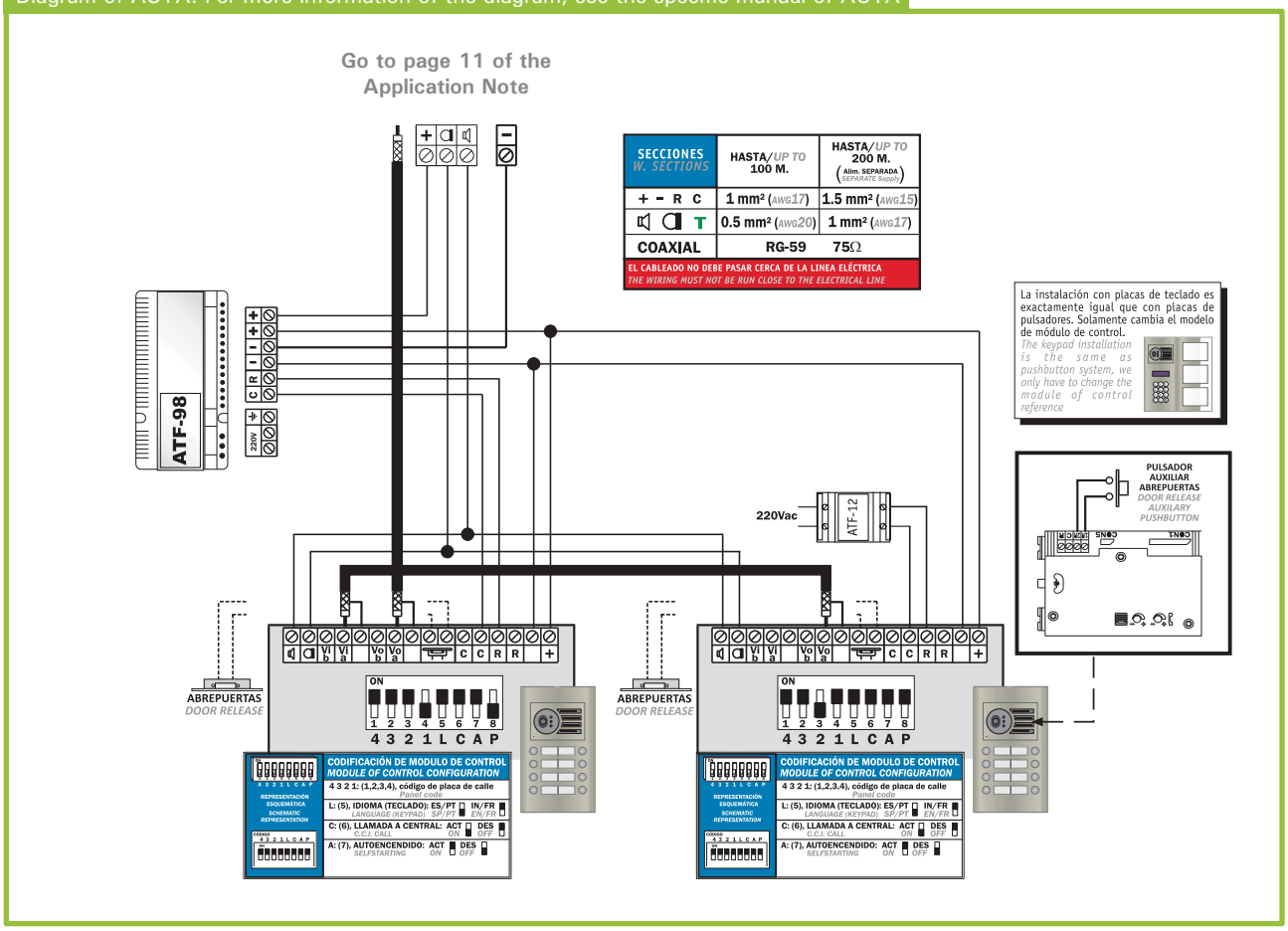
*The power supply unit ALV-DIGITAL 3.5A does not give A/C current (R-C). So it has to be installed with and ATF-12 power supply unit to release the electrical strike & to light the cardholder

CODE OF AUDIO/VIDEO PANELS WITH KEYBOARD
4 3 2 1: (1,2,3,4), CODE EXTERNAL PANEL
L: (5), LANGUAGE SELECTION: A - B
C: (6), CALL TO CENTRAL: ON - OFF
A: (7), SELF STARTING: ON - OFF
P: (8), PANEL MAIN - AUXILIARY

Video doorphone integration with **vivimat®** III

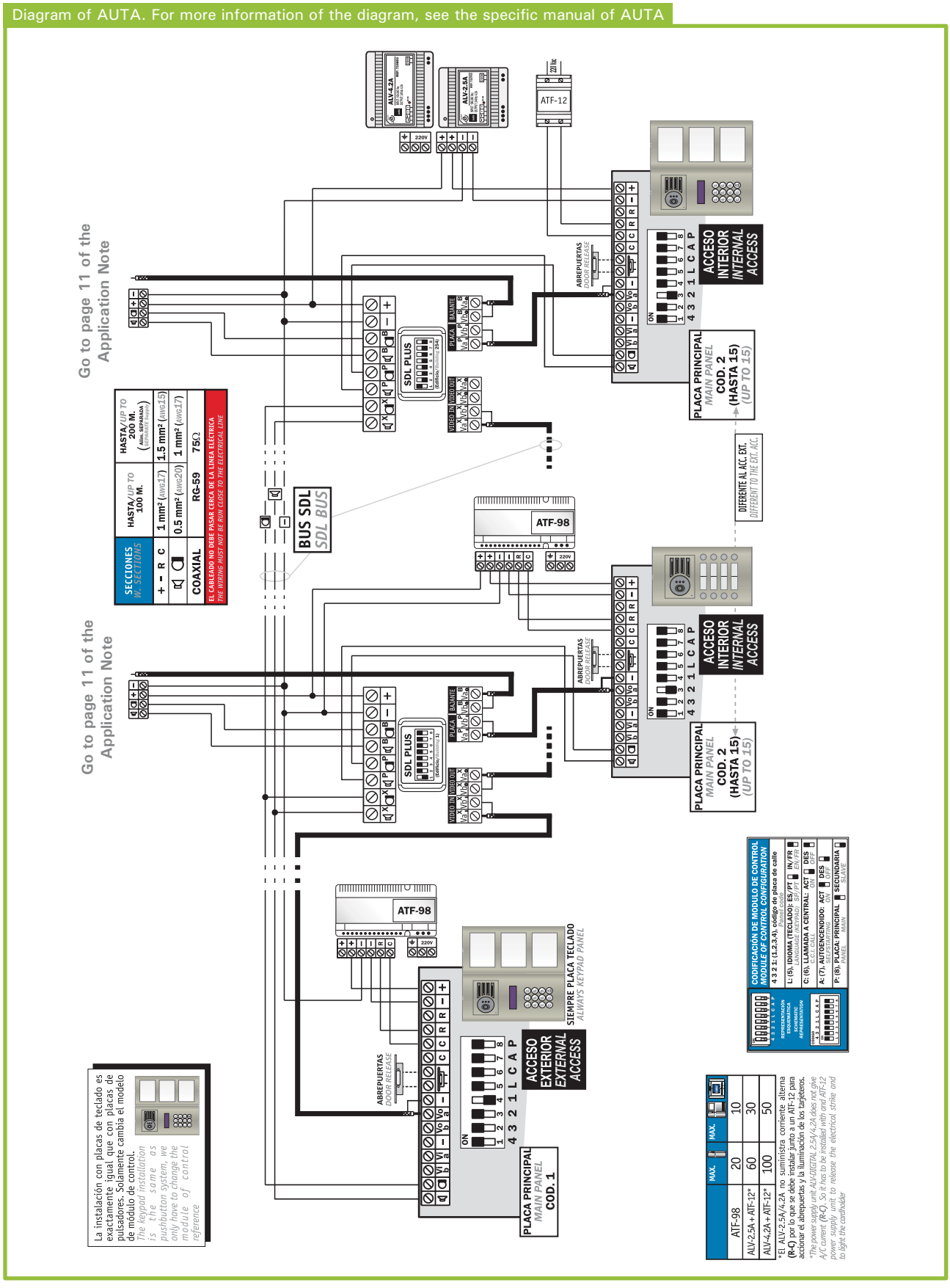
Connecting the door stations with the power supply. The door opener and the drip moulding of the building (2 street panels):

Diagram of AUTA. For more information of the diagram, see the specific manual of AUTA


Go to page 11 of the Application Note
SECCIONES W. SECTIONS
HASTA/UP TO 100 M.
HASTA/UP TO 200 M. (Alim. SEPARADA SEPARATE Supply)
+ - R C
1 mm² (AWG17)
1.5 mm² (AWG15)
T
0.5 mm² (AWG20)
1 mm² (AWG17)
COAXIAL
RG-59
75Ω
EL CABLEADO NO DEBE PASAR CERCA DE LA LINEA ELÉCTRICA
THE WIRING MUST NOT BE RUN CLOSE TO THE ELECTRICAL LINE
ATF-98
220V
220Vac
ATF-12
La instalación con placas de teclado es exactamente igual que con placas de pulsadores. Solamente cambia el modelo de módulo de control.
The keypad installation is the same as pushbutton system, we only have to change the module of control reference
PULSADOR AUXILIAR ABREPUERTAS
DOOR RELEASE AUXILARY PUSHBUTTON
ABREPUERTAS
DOOR RELEASE
ON
1 2 3 4 5 6 7 8
4 3 2 1 L C A P
CODIFICACIÓN DE MODULO DE CONTROL
MODULE OF CONTROL CONFIGURATION
4 3 2 1: (1,2,3,4), código de placa de calle
Portal code
L: (5), IDIOMA (TECLADO): ES/PT IN/FR
LANGUAGE (KEYPAD) SP/PT EN/FR
C: (6), LLAMADA A CENTRAL: ACT DES
C.C.I. CALL ON OFF
A: (7), AUTOENCENDIDO: ACT DES
SELFSTARTING ON OFF

Video doorphone integration with **vivimat®** III

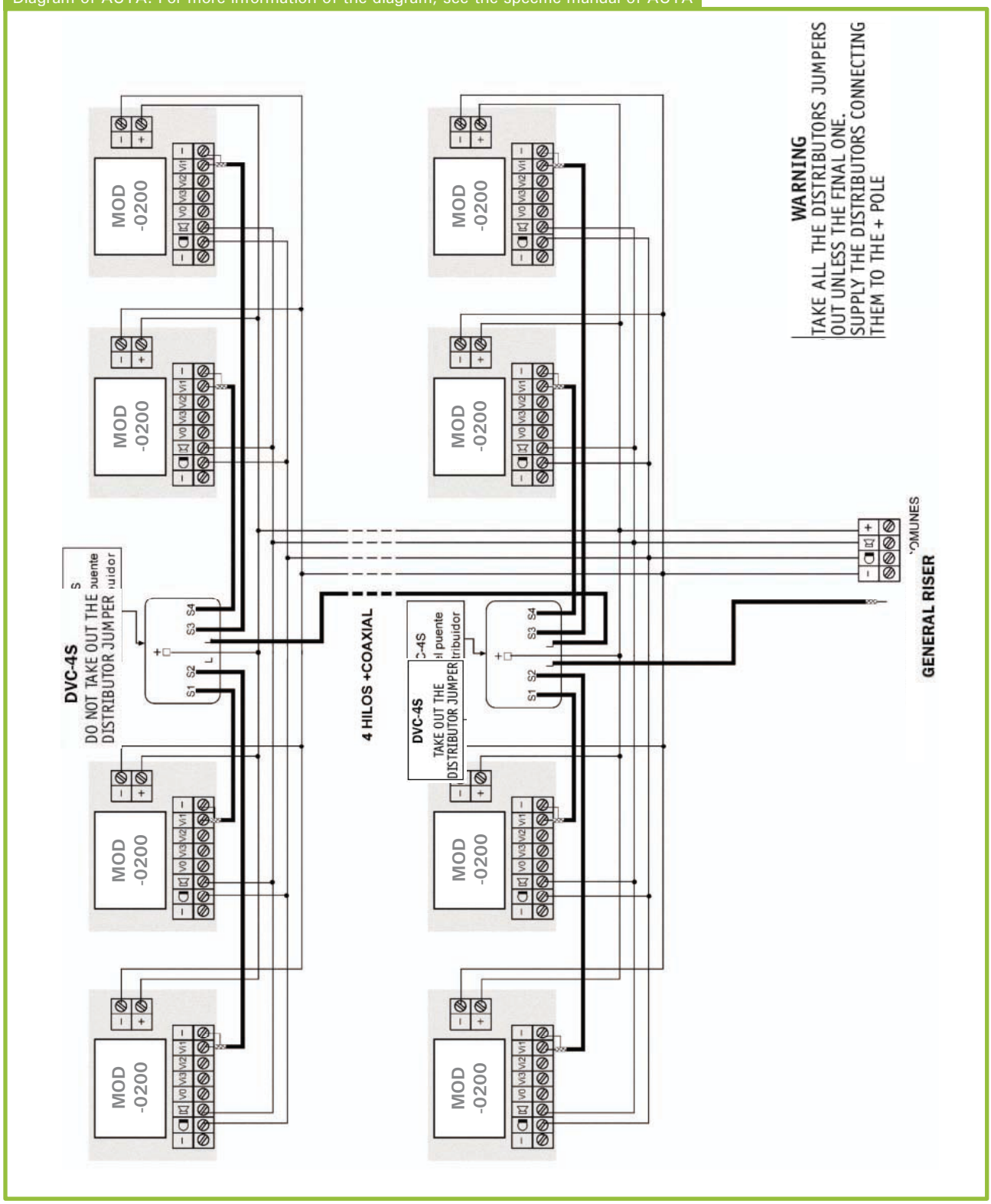
Diagram of AUTA. For more information of the diagram, see the specific manual of AUTA


Go to page 11 of the Application Note
Go to page 11 of the Application Note
SECCIONES
Ws. SECTIONS
HASTA/UP TO 100 M.
HASTA/UP TO 200 M. (Alim. SEPARADA / SEPARATE POWER)
+ - R C
1 mm² (awe17)
1.5 mm² (awe15)
0.5 mm² (awe20)
1 mm² (awe17)
COAXIAL
RG-59
75Ω
EL CABLEADO NO DEBE PASAR CERCA DE LA LINEA ELÉCTRICA
THE WIRING MUST NOT BE RUN CLOSE TO THE ELECTRICAL LINE
BUS SDL
SDL BUS
ALV-4.2A
ALV-2.5A
ATF-12
ATF-98
SDL PLUS
PLACA PRINCIPAL
MAIN PANEL
COD. 2
(HASTA 15)
(UP TO 15)
ACCESO INTERIOR
INTERNAL ACCESS
DIFERENTE AL ACC. EXT.
DIFFERENT TO THE EXT. ACC.
ABREPUERTAS
DOOR RELEASE
SIEMPRE PLACA TECLADO
ALWAYS KEYPAD PANEL
ACCESO EXTERIOR
EXTERNAL ACCESS
PLACA PRINCIPAL
MAIN PANEL
COD. 1
CODIFICACIÓN DE MODULO DE CONTROL
MODULE OF CONTROL CONFIGURATION
4 3 2 1: (1,2,3,4): código de placa de calle
L: (5), IDIOMA (TECLADO): ES/PT IN/FR
LANGUAGE (KEYPAD) SP/PT EN/FR
C: (6), LLAMADA A CENTRAL: ACT DES
CALL TO CENTRAL ACT DES
A: (7), AUTOENCENDIDO: ACT DES
SELFSTARTING ON OFF
P: (8), PLACA: PRINCIPAL SECUNDARIA
PANEL MAIN SECUNDARY
MAX.
ATF-98 20 10
ALV-2.5A + ATF-12* 60 30
ALV-4.2A + ATF-12* 100 50
*El ALV-2.5A/4.2A no suministra corriente alterna (R~C), por lo que se debe instalar junto a un ATF-12 para accionar el abrepuertas y la iluminación de los tarjeteros.
*The power supply unit ALV-DIGITAL 2.5A/4.2A does not give A/C current (R~C). So it has to be installed with and ATF-12 power supply unit, to release the electricol strike and to light the comfolder
La instalación con placas de teclado es exactamente igual que con placas de pulsadores. Solamente cambia el modelo de módulo de control.
The keypad installation is the same as pushbutton system, we only have to change the module of control reference

Video distribution for screen

Connection of the monitors and **vivimat®** III central unit of the housing:

Diagram of AUTA. For more information of the diagram, see the specific manual of AUTA


WARNING
TAKE ALL THE DISTRIBUTORS JUMPERS OUT UNLESS THE FINAL ONE. SUPPLY THE DISTRIBUTORS CONNECTING THEM TO THE + POLE
MOD -0200
DVC-4S
DO NOT TAKE OUT THE DISTRIBUTOR JUMPER
4 HILOS +COAXIAL
DVC-4S
TAKE OUT THE DISTRIBUTOR JUMPER
GENERAL RISER

Configuration of Decor Plus digital pannel

Information of AUTA. For more information of the diagram, see the specific manual of AUTA

Configuration Menu (C + Bell + Config. Menu Code ('1') + Bell)

- This menu has been created to set the following 7 Panel Parameters:
  - OPEN CODE. 4 different common "Open Codes" up to 6 digits, to be assigned to the postman or to the doorman, but not usually to the neighbours of the building. By default these codes are 101010, 202020, 303030, and 404040. Set any open code to the value 0 implies to disable it.
  - OPEN TIME. 2 different configurable "Open Times". The first one will be used when the user is outside the building[3] and the second one if the user is inside the building (pressing the hall-button inside the building. This open time is usually longer). By default the Time1=5 seconds and the Time2 = 8 s. (Max Time for both = 9 seconds).
  - PANEL NUMBER. There are not dip-switches any more to set the panel number. Now it is configured with the keyboard. By default it will be set to 1. Up to 15 panels could be configured.
  - PANEL internal / external. The Panel should be configured as 'external' if it performs the call through an SDL (connected to the X (external) line of the SDL) otherwise the Panel will be configured as 'internal'. From the v2.0, the screen will also show the software version and an internal identification code.
  - SELF STARTING. The self-starting can be enabled or disabled in this menu.
  - SWITCHBOARD. This option should be enabled if the installation has a switchboard linked to the DecorPlus panel. This means that any call code (even a non existing one) will make a call to the switchboard. If this option is configured as 'SWITCHBOARD: no' there it is still the possibility to assign the call code '0' to a telephone / monitor that will work as if it was a switchboard. The non existing codes introduced in the panel, will also be redirected to this telephone / monitor. If the installation needn't switchboard functions, it is recommended to set 'SWITCHBOARD: no' and be sure not having any call code '0' in the data base.[4]
  - NEW ACCESS CODE. It is strongly recommended to change the codes of the Configuration & Directory menus. Keep in mind that these codes were, by default, '1' and '9' respectively.

- To navigate through the different parameters, we must press the C key, and to change&confirm between the different options of the same parameter, the Bell key should be pressed. Any numerical parameter can be changed directly with the numeric keyboard, and if we want to exit this menu, the Bell key must be pressed when the 'Exit?' screen is reached.

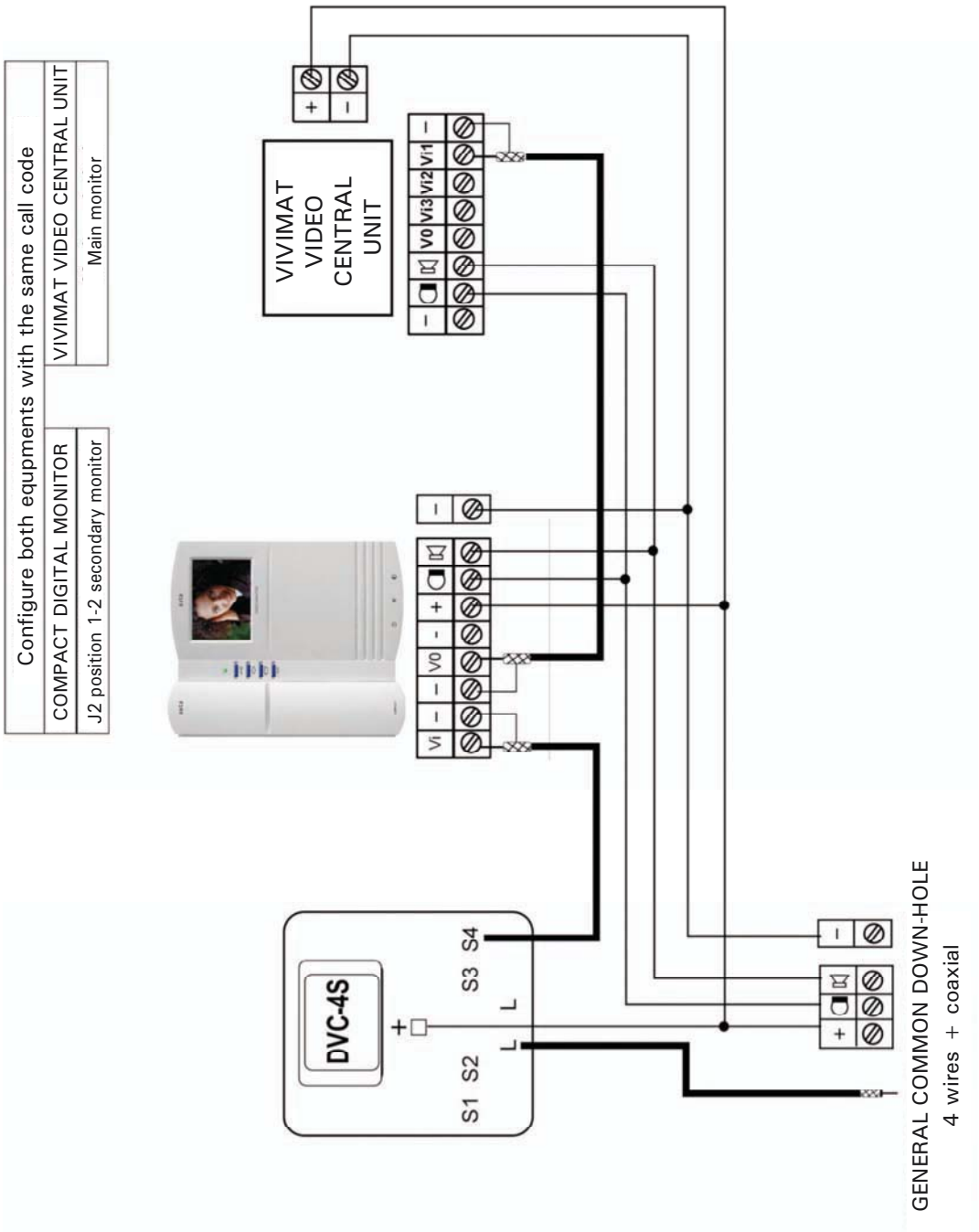
NOTES:

3 That is when we call to a flat and someone opens the door, also when we introduce our personal Open Code or a general Open Code.

4 If there is a guard porter button in the installation and it is pressed: If 'SWITCHBOARD: yes' it will make a call to the guard porter, if 'SWITCHBOARD: no' it will call to the telephone / monitor with the call code 0 only if it exists in the data base.

Video doorphone integration with **vivimat®** III

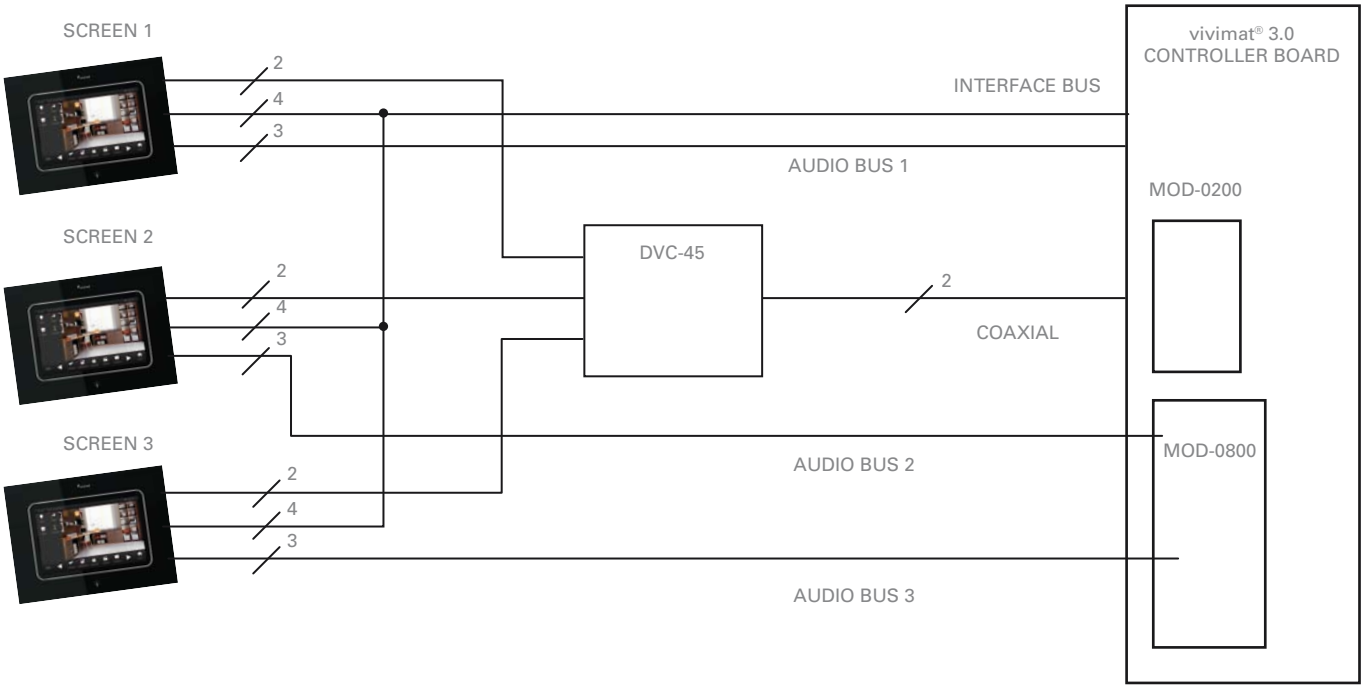
Diagram of AUTA. For more information of the diagram, see the specific manual of AUTA



Video doorphone integration with **vivimat®** III

Connection between **vivimat®** III central unit and the terminals

Connecting various P-VISION-C7(X) screens to the central unit:



Configuration

To configure the video door phone system in the housing with **vivimat®** Project, please refer to the **vivimat®** Project user manual, section 5.7.9.3.2 Video Door Phone.

Using the video doorphone system

The use of the video doorphone through **vivimat®** III avoids the use of the video doorphone screen, because all the control is carried out by the P-VISION-C7(X) screen.

Besides the normal use of the video doorphone, open the door, answer a call, turn up/down the volume, etc. it allows:

- Control of the doorphone from the internal telephones of the housing: talk/listen and open the door.
- Call diversion from the video doorphone to the telephone.
- Voice mail of the video doorphone.

Consult the user's manual of the P-VISION-C7(X) to obtain more information

Product manufactured by: Dinitel 2000 S.A. - Avda. Otaola 20 20600 Eibar (Guipúzcoa) Spain
T. +34 902 111 220 / +34 943 820 458 F. +34 902 124 779
www.domotica-vivimat.com
dinitel@dinitel.com